

# SACB-6/12-L-C SCO P - Distributor box



1452835

<https://www.phoenixcontact.com/us/products/1452835>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



## Your advantages

- Safety in the field, thanks to molded housing and high degree of protection
- Convenient: increased machine availability thanks to quick and easy diagnostics
- Save space: distributor box with double occupancy for two sensors in one slot
- Save time, thanks to installation with SPEEDCON fast locking system
- Flexible: distributor box with connector hood for on-site assembly

## Commercial data

Item number	1452835
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF41
Product key	AF3CBD
GTIN	4046356553698
Weight per piece (including packing)	197.64 g
Weight per piece (excluding packing)	201.2 g
Customs tariff number	85366990
Country of origin	DE

# SACB-6/12-L-C SCO P - Distributor box



1452835

<https://www.phoenixcontact.com/us/products/1452835>

## Technical data

### Notes

Note regarding documentation	For details about the PCB connectors used, refer to the technical data for MC 1,5/10-STF-3,5 (1847204)
Assembly note	<b>NOTE:</b> Observe the permissible bending radii when routing cables, since the degree of protection may be at risk if the bending forces are too high. Reduce mechanical loads upstream of the connector, e.g., by using cable ties.
Note on application	Unused slots are to be sealed off prior to commissioning. Suitable sealing elements are to be found under "Accessories".

### Product properties

Product type	Distributor box
Application	Standard
Number of positions	5
Number of slots	6
Coding	A
LED	yes

### System properties

#### Local diagnostics

Monitored function	Supply voltage
Optical representation	Green LED

### Electrical properties

Max. operating voltage $U_{max}$	30 V DC
Local diagnostics	Supply voltage Green LED
	Status display I/O Yellow LED
Nominal voltage $U_N$	24 V DC
Rated current, total	10 A
Max. current carrying capacity per path	2 A
Current carrying capacity per slot	4 A

### Connection data

#### Conductor connection

Sensor/actuator connection system	M12 socket
Conductor cross section Flexible signal line	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross section Flexible power supply	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Connection cross section AWG Flexible signal line	26 ... 16
Connection cross section AWG Flexible power supply	26 ... 16
Stripping length Signal line	7 mm
Stripping length Power supply	7 mm
Stripping length of the sheath	50 mm (Master cable)

# SACB-6/12-L-C SCO P - Distributor box



1452835

<https://www.phoenixcontact.com/us/products/1452835>

Tightening torque, cover screw	1 Nm
Tightening torque slot sensor/actuator cable	0.4 Nm
Tightening torque of mounting screw for fixing the housing	0.5 Nm
Tightening torque, union nut	2.5 Nm

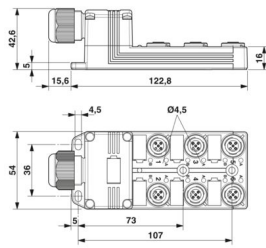
## Connection assignment

Slot/position = Wire color or connection	1 / 4 (A) = WH
	1 / 2 (B) = GYPK
	2 / 4 (A) = GN
	2 / 2 (B) = RDBU
	3 / 4 (A) = YE
	3 / 2 (B) = WHGN
	4 / 4 (A) = GY
	4 / 2 (B) = BNGN
	5 / 4 (A) = PK
	5 / 2 (B) = WHYE
	6 / 4 (A) = RD
	6 / 2 (B) = YEBN
	1-6 / 1 (+ 24 V) = BN
	1-6 / 3 (0 V) = BU
	1-6 / 5 (PE) = GNYE

## Signaling

Status display present	yes
------------------------	-----

## Dimensions

Dimensional drawing	
Width	54 mm
Height	43 mm
Length	123 mm

## Material specifications

Material Threaded sleeve	PBT
Material Housing	PBT
Material Molding compound	PUR
Flammability rating according to UL 94	V0
Seal material O-ring	NBR
Contact material	Cu alloy

# SACB-6/12-L-C SCO P - Distributor box



1452835

<https://www.phoenixcontact.com/us/products/1452835>

Contact surface material	gold-plated
Contact carrier material	PA
Material of contact, master cable side	CU alloy
Material of the contact carrier on the master cable side	PA
Material of contact surface, master cable side	Sn

## Cable/line

External cable diameter	7 mm ... 12 mm
Connection method	Pluggable screw connection

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP65
	IP67
Ambient temperature (operation)	-25 °C ... 80 °C

## Standards and regulations

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101

# SACB-6/12-L-C SCO P - Distributor box

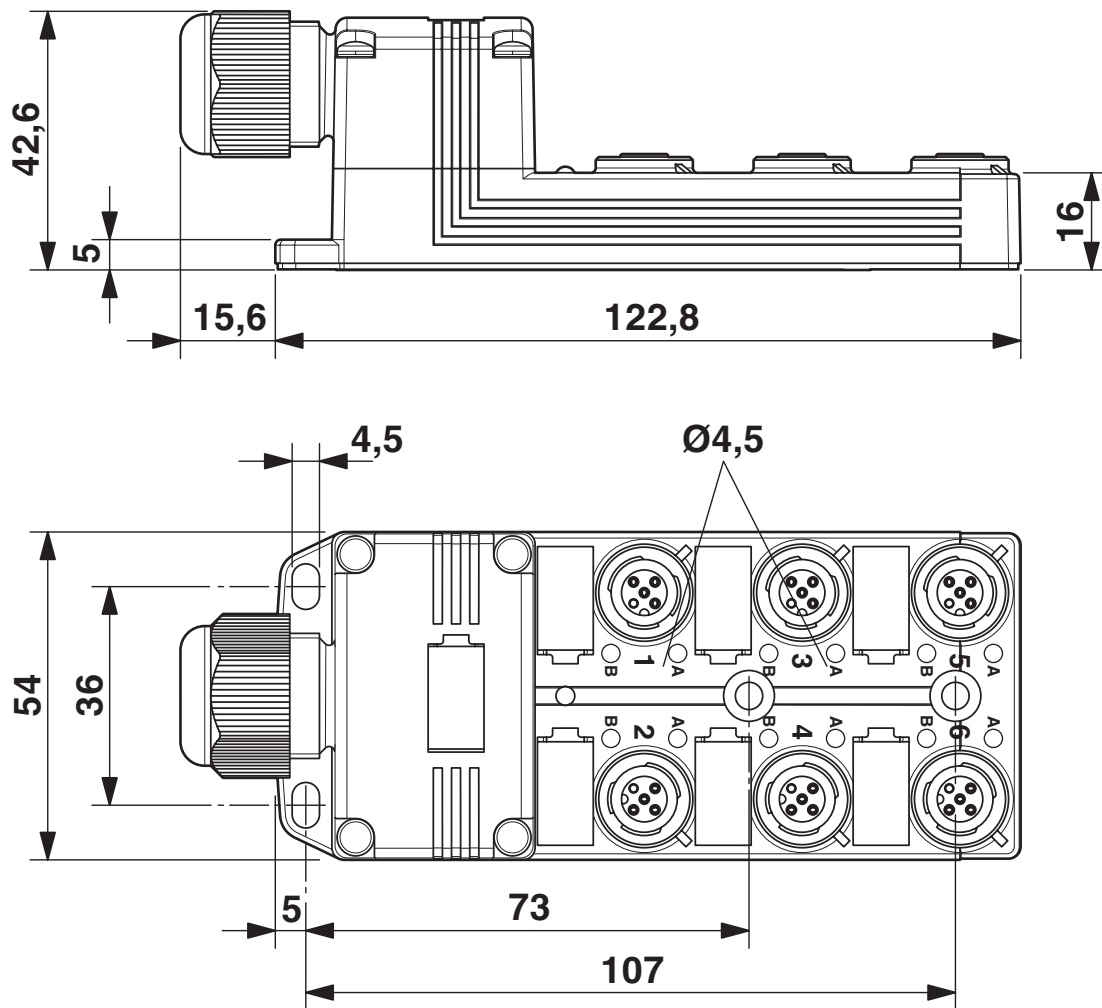
1452835

<https://www.phoenixcontact.com/us/products/1452835>



## Drawings

Dimensional drawing



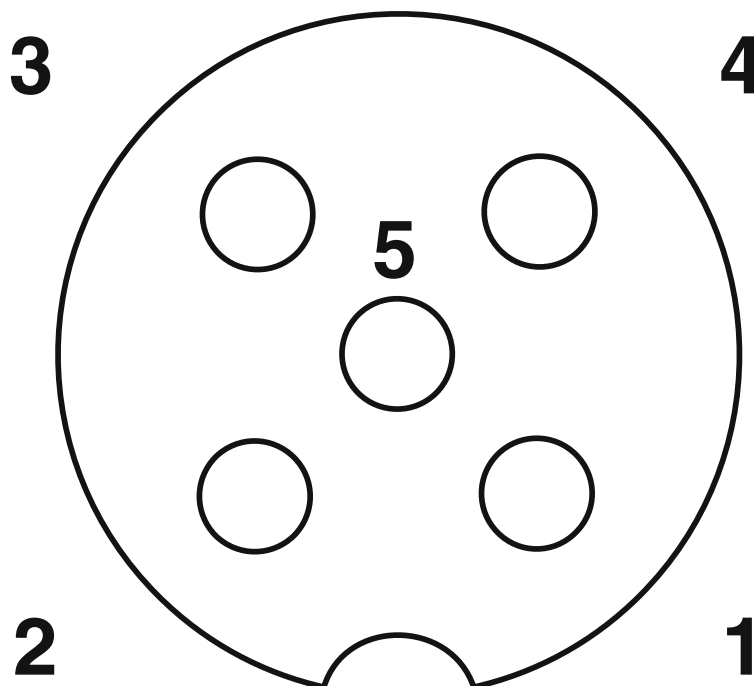
# SACB-6/12-L-C SCO P - Distributor box

1452835

<https://www.phoenixcontact.com/us/products/1452835>

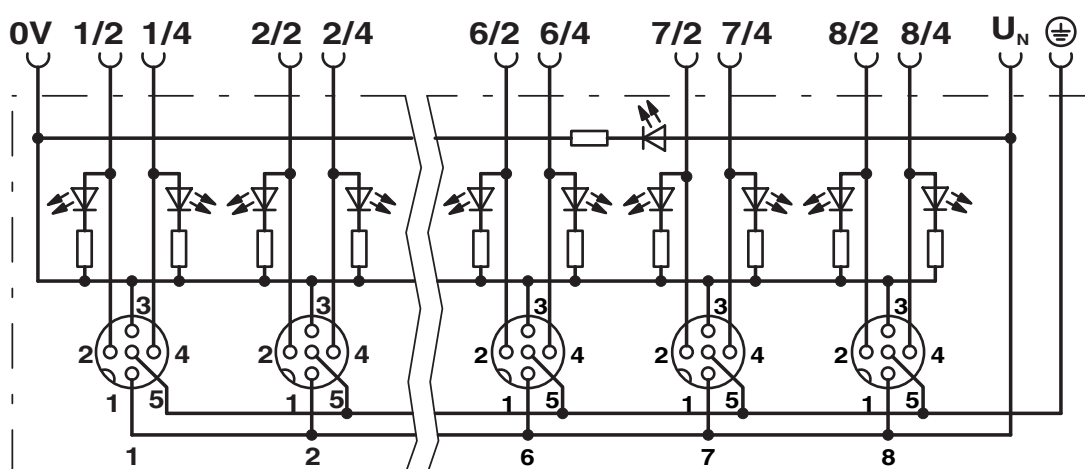


Schematic diagram



M12 slot, socket, 5-pos.

Circuit diagram



# SACB-6/12-L-C SCO P - Distributor box





1452835

<https://www.phoenixcontact.com/us/products/1452835>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1452835>

 <b>cUL Recognized</b> Approval ID: E118976				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
keine				
	24 V	-	-	-

 <b>UL Recognized</b> Approval ID: E118976				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
keine				
	24 V	-	-	-

# SACB-6/12-L-C SCO P - Distributor box



1452835

<https://www.phoenixcontact.com/us/products/1452835>

## Classifications

### ECLASS

ECLASS-13.0	27440111
ECLASS-15.0	27440111

### ETIM

ETIM 9.0	EC003558
----------	----------

### UNSPSC

UNSPSC 21.0	31251500
-------------	----------

# SACB-6/12-L-C SCO P - Distributor box



1452835

<https://www.phoenixcontact.com/us/products/1452835>

## Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

Phoenix Contact 2025 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)